ALBERTA

SWINE ROP

ANNUAL REPORT

1984

Alberta
AGRICULTURE
PORK INDUSTRY BRANCH

RECORD OF PERFORMANCE SWINE TESTING IN ALBERTA

1984 ANNUAL REPORT

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R.O.P. Swine Testing in Alberta is a joint Federal-Provincial performance testing program for both purebred and commercial swine breeders.

The program for breeding stock producers is a two part program consisting of:

1. An "on farm" performance test of boars and gilts performed by provincial staff.

2. A central station test of boars only at either the Leduc or Lacombe test stations owned and operated by Agriculture Canada.

Commercial producers may use the ultrasonic home test program for the selection of gilts within their herd providing they meet certain basic requirements.

The Alberta Swine R.O.P. Advisory Committee (ASROPAC) for 1984 comprised of the following members:

D. S. Harbison (Chairman) - Supervisor, Swine Breeding, Pork Industry Branch, Alberta Agriculture

S. P. Eagles (Secretary) - Regional Production Officer, Livestock Division, Agriculture Canada

A. Lange - Assistant Supervisor, Swine Breeding (R.O.P.), Alberta Agriculture representative

T. Matejka - Alberta Agriculture appointed producer

M. Baert - Alberta Agriculture appointed producer

C. Ormond - Alberta Agriculture appointed producer

J. Knobben - Alberta Swine Breeders Association appointed producer

B. Eringfeld - Alberta Swine Breeders Association appointed producer

W. Weber - Alberta Swine Breeders Association appointed producer

R. Barrett - Alberta Pork Producers Marketing Board representative

J. Oudman - Western Hog Growers Association representative

Advisory Members:

Dr. F. X. Aherne - Swine Nutritionist, University of Alberta

Dr. A. P. Sather - Animal Geneticist, Lacombe Research Station

Dr. C. Schipper - Swine Herd Health Program, Alberta Agriculture

Ex-Officio Members:

J. S. Lore - Director, Animal Industry Division, Alberta Agriculture

D. C. Beaton - Regional Director, Food Production and Inspection Branch, Agriculture Canada

F. W. Schuld - Head, Pork Industry Branch, Alberta Agriculture

G. J. Regehr - Program Co-ordinator, Livestock and Poultry, Agriculture Canada

THE ALBERTA SWINE R.O.P. PROGRAM IN 1984

The format of this year's report follows that of last year whereby the information is divided into three parts, Part A - General Data, Part B - Test Station Data and Part C - Home Test Data. Part B contains a complete list of the sires who had boar progeny in one of the test stations and the complete sire evaluation where there were at least 8 tested. In Part C information has been divided into "seedstock" (those operators who are selling breeding stock) and "commercial" (those who are using the program from within herd selection of replacements).

Looking at Part A, Table I, it can be seen that 19,020 pigs were tested on farms and in the test stations in Alberta or about a 3% increase over the previous year. Most of the increase came in the home (farm) test portion of the program. The performance parameters of backfat and age have shown a slight reversal of the improvement trend noticed in previous years. It is difficult to ascertain what environmental and/or genetic factors this reversal may be due to and unless it establishes a definite trend in future years it is probably futile to speculate at this stage. As usual the 10 year time line is shown in Table II

The overall results of station testing is shown in Table I and the breakdown by station is in Table IV. It is encouraging to see that the performance parameters are still showing improvement. The culling information for each station is shown in Table V. Halothane was again administered to all boars entering the test station. The reactors by breed were 2 Yorkshires, 3 Landrace and 3 Lacombe, all died and their littermates were castrated and sent to market. In the sire evaluation section a total of 134 "on farm" and A.I. sires had some progeny tested in the Alberta test stations. Of these 134 some 60 sires or 45% have complete their evaluations and the data for these is listed.

Table IV shows the boar sales activity at the Alberta Swine Breeders Association (ASBA) sponsored sales. Although the number sold and average prices are up, they are not yet at record setting levels.

From Table VII in the home test section, it can be seen that there is a slow but definite trend for fewer but larger operations to perform most of the testing. There are 52 herds, out of a total of 94, which tested over 100 pigs during the year but these 52 tested 90% of all the pigs in the program. Small herds are being encouraged to increase their numbers and probe more pigs per call to make the program more efficient and effective. Inactive and marginally active registrants were sent a letter asking if they wished to continue on the program and those that did not reply were removed. The home tested results by breed and sex are shown in Table X divided into "seedstock" and "commercial" sections. As usual the home test averages for each herd on the program during 1984 complete the report as Table XI.

There was only one staff change on the provincial scene this year, that being in the Vermilion area. Dorothy Cleland resigned her part-time position in April and was replaced by Bryon Wolters who is a graduate in Livestock Production from Olds College. He is involved with his family's grain and purebred cattle farm in the Vermilion area.

PART A - GENERAL DATA

TABLE I

ALBERTA SWINE R.O.P. TESTING SUMMARY

1980 - 1984

Boars Station Tested	1980	1981	1982	1983	1984
Number	902	732	872	780	852
Av. Backfat thickness (mm)	17.4	16.6	15.3	15.2	14.5
Av. daily gain (kg)	0.88	0.91	0.92	0.93	0.92
Av. feed conversion	2.55	2.47	2.43	2.46	2.46
Av. age to 90 kg. (days)	152	149	147	148	144
Boars Home Tested					
Number	4,207	4,201	4,750	5,851	6,164
Av. backfat thickness (mm)	14.6	14.4	13.9	13.9	14.1
Av. age to 90 kg. (days)	171	166	162	159	157
TOTAL BOARS TESTED	5,109	4,933	5,622	6,631	7,016
Gilts Home Tested					
Number	9,664	9,778	10,990	11,809	12,004
Av. backfat thickness (mm)	15.7	15.8	15.2	14.8	15.4
Av. age to 90 kg. (days)	174	174	172	167	171
TOTAL PIGS TESTED	14,773	14,711	16,612	18,440	19,020

TABLE II

BOARS HOME TESTED - 1974 - 1984

YEAR	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE AT 90 KG. (days)
1974	1,260	18.3	181
1975	1,267	17.3	171
1976	1,305	16.5	166
1977	1,965	15.8	163
1978	2,676	15.4	167
1979	3,937	15.0	172
1980	4,207	14.6	171
1981	4,201	14.4	166
1982	4,750	13.9	162
1983	5,851	13.9	159
1984	6,164	14.1	157

TABLE III

GILTS HOME TESTED - 1974 - 1984

1974	1,579	19.1	188
1975	2,411	18.5	179
1976	3,159	17.8	174
1977	4,390	17.4	172
1978	7,790	16.8	177
1979	9,988	16.0	177
1980	9,664	15.7	174
1981	9,778	15.8	174
1982	10,990	15.2	172
1983	11,809	14.8	167
1984	12,004	15.4	171

PART B: TEST STATION DATA

TABLE IV

1984 TEST STATION SUMMARY

LEDUC STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	342	50	74	4	12	2	484
NUMBER TESTED	340	44	69	4	12	2	471
AVERAGE BACKFAT at 90 kg (mm)	13.6	13.7	14.5	11.9	11.3	12.5	13.7
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.90	0.89	0.90	0.87	0.82	0.99	0.89
FEED CONVERSION (kg feed/kg gain)	2.42	2.51	2.50	2.56	2.91	2.51	2.45
AVERAGE AGE @ 90 kg (days)	145	143	148	143	156	134	145
NUMBER CULLED	176	35	50	1	3	1	266
NUMBER UNSOLD	69	2	14	-	4	-	89
NUMBER SOLD	97	13	10	3	5	1	129
TOTAL PRICE	45,340	7,420	5,100	1,575	1,650	350	61,435
AVERAGE PRICE	467.42	570.77	510.00	525.00	330.00	350	476.24

TABLE IV (cont'd)

1984 STATION TEST SUMMARY

LACOMBE STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	290	56	30	10	10		396
NUMBER TESTED	282	53	28	8	10		381
AVERAGE BACKFAT @ 90 kg (mm)	15.5	15.8	17.5	14.3	14.6		15.6
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.96	0.96	0.96	0.95	0.96		0.96
FEED CONVERSION (kg feed/kg gain)	2.44	2.58	2.54	2.41	2.36		2.46
AVERAGE AGE @ 90 kg (days)	143	135	142	157	144		243
NUMBER CULLED	172	32	22	6	6		238
NUMBER UNSOLD	14	1	1	-	-		16
NUMBER SOLD	104	23	7	4	4		142
TOTAL PRICE	51,220	11,925	2,700	1,975	1,900		69,720
AVERAGE PRICE	492.50	518.48	385.71	493.75	475.00		490.99

TABLE IVa

1983 TEST STATION SUMMARY

LEDUC STATION:*

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	274	32	52	20	20	10	408
NUMBER TESTED	272	32	43	20	17	8	392
AVERAGE BACKFAT (mm) @ 90 KG	14.9	15.4	15.2	12.4	13.7	15.1	14.8
AVERAGE DAILY GAIN (kg./day) 30-90 kg.	0.92	0.91	0.93	0.87	0.93	0.87	0.92
FEED CONVERSION (kg. feed/kg. gain)	2.43	2.51	2.49	2.49	2.43	2.46	2.45
AVERAGE AGE @ 90 kg. (days)	145	143	144	165	155	149	146
NUMBER CULLED	164	19	36	13	12	9	253
NUMBER UNSOLD	43	6	3	3	4	1	60
NUMBER SOLD	67	7	13	4	4	-	95
TOTAL PRICE	$27,970	$3,335	$5,970	$1,400	$1,485	-	$40,160
AVERAGE PRICE	$41,746	$476.43	$459.23	$350.00	$371.25	-	$422.74

*Leduc station had to miss one fill this year due to interior renovations. One fill usually consists of about 80 boars.

TABLE IVa (cont'd)

1983 TEST STATION SUMMARY

LACOMBE STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	294	52	34	14	12	-	406
NUMBER TESTED	283	49	32	12	12	-	388
AVERAGE BACKFAT (mm) @ 90 kg.	15.5	15.9	17.4	13.7	15.4	-	15.7
AVERAGE DAILY GAIN (kg./day) 30-90 kg.	0.95	0.94	0.96	0.91	0.95	-	0.95
FEED CONVERSION kg. feed/kg. gain	2.47	2.52	2.53	2.46	2.40	-	2.48
AVERAGE AGE @ 90 kg (days)	144	136	142	157	151	-	143
NUMBER CULLED	184	34	25	7	8	-	258
NUMBER UNSOLD	18	1	1	-	-	-	20
NUMBER SOLD	92	17	8	7	4	-	128
TOTAL PRICE	$43,605	$8,450	$3,050	$3,025	$3,425	$1,850	$60,355
AVERAGE PRICE	$473.97	$497.06	$378.13	$489.29	$462.50	-	$471.52

TABLE V
CULLING INFORMATION
REASONS FOR CULLING: 1984 & 1983

	LEDUC TEST STATION				LACOMBE TEST STATION			
	1984	%**	1983	%**	1984	%**	1983	%**
Total culled*	266	55	253	62	238	60	258	64
Performance	180	37	181	44	174	44	196	48
Feet and Legs	68	14	56	14	39	10	39	10
Underline***	-	-	-	-	4	-	-	-
Testicles	1	-	2	-	-	-	3	-
Rupture	1	-	-	-	-	-	-	-
Abscess	1	-	1	-	4	-	-	-
Died	-	-	2	-	2	-	4	-
Shaking	2	-	3	-	-	-	1	-
Returned to Breeder	-	-	-	-	-	-	-	-
Bloody Urine	-	-	-	-	2	-	-	-
Ridgling	1	-	-	-	1	-	1	-
Enlarged Sheath	1	-	2	-	2	-	1	-
Ulcers	-	-	-	-	1	-	1	-
Prolapsed Anus	1	-	-	-	-	-	-	-
Undershot jaw	-	-	-	-	-	-	-	-
Illness	-	-	2	-	2	-	2	-
Lack of Condition	2	-	10	-	1	-	-	-
Sent to Lab	-	-	6	-	2	-	6	-
Halothane	5	-	4	-	3	-	3	-
Castrated	7	-	4	-	3	-	3	-
Other	3	-	1	-	1	-	1	-
Total Entered	484	-	408	-	396	-	406	-

* Total pigs culled may be for one or more reasons

** % shown is calculated as a proportion of total pigs entered

***Boars with defective underlines are not culled but moved to the end of the sale order and announced as such to the buyers.

1984 TEST STATION SIRE EVALUATIONS

Listed below are all sires who had progeny tested in the Alberta stations. The results are shown as deviations from the average. A minimum of 8 progeny are required for a sire evaluation. The coding following the sires' identification is thus:

N - is a new evaluation started and completed in 1984.

C - is an evaluation started in 1983 and completed in 1984.

U - is an evaluation completed in 1983 with additional progeny tested in 1984.

It should be remembered that the desirable sires exhibit the following characteristics:

- negative figures for backfat, feed coversion and age
- positive figures for average daily gain
- index value over 100

Age and feed conversion are not included in the test station index but are shown for information only.

A.I. sire information is shown only once under Alberta Swine Breeding Centre at the end. Results are taken from progeny submitted by many breeders.

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (kg/day)	Feed Conv.	Age (days)	Index
Agra Farms	AJIU 338P (U)	York	12	+0.8	+0.05	-0.07	-3.5	101.4
	CUXA 110R (N)	York	8	-0.1	+0.11	-0.03	-7.2	126.0
	JKAA (280R)	York	2	incomplete				
	ARHL 114P (U)	Land	20	+0.7	+0.08	-0.10	-7.1	113.7
	ARHL 1228P (N)	Land	8	-1.4	-0.04	+0.13	+1.1	105.1
	ARHL 136R	Land	4	incomplete				
	ATNV 449R (N)	Land	10	-2.1	+0.04	-0.07	-0.4	120.8
Baert, M.	CUXA 19R	York	7	incomplete				
	ARVY 469R	Duroc	2	incomplete				
Blair, W.	TVW 243P	York	6	incomplete				
Bloomsbury Farm	JWRH 535N (C)	York	10	+0.3	-0.01	+0.06	+5.7	94.8
	TVW 291R	York	2	incomplete				
	BL 1022N (C)	Lac	18	-0.3	-0.02	-0.02	+5.6	100.9
	BL 1193N (U)	Lac	18	+0.9	+0.02	+0.07	+0.4	96.7
	BL 790P	Lac	2	incomplete				
	BL 960P	Lac	6	incomplete				
	KR 14804P (N)	Lac	12	-1.6	+0.08	-0.06	-2.9	126.3

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (kg/day)	Feed Conv.	Age (days)	Index
Brownlee, J or T	AWGF 93P	York	10	+1.0	-0.01	+0.02	+3.4	89.2
	KKEF 582P	York	6	incomplete				
	AREE 210R	York	2	incomplete				
	AOVX 12N	Hamp	2	incomplete				
Duff, Donald or Brian	ATNV 1001N (C)	Land	10	-0.6	-0.06	+0.11	-1.7	94.0
Eringfeld, Ben	AOGK 271P (N)	York	8	-2.3	-0.09	-0.02	+15.2	100.4
	KKEF 1999P (N)	York	14	-2.7	-0.07	+0.03	+9.3	107.9
	AREE 134R	York	6	incomplete				
	BKDF 131N	Land	4	incomplete				
	DUFF 440R	Land	4	incomplete				
	DUFF 441R	Land	2	incomplete				
Five Lakes Farm	ARHL 944N (U)	York	32	-1.3	-0.01	-0.02	+1.7	110.7
	AOJW 405P	York	4	incomplete				
	JKAA 0792P (N)	York	16	-1.2	+0.03	-0.06	-0.3	116.4
	JKAA 512R	York	2	incomplete				
	JKAA 715N (U)	York	18	-0.9	0.00	+0.03	-3.1	108.5
	JA 390L (U)	Lac	26	-0.8	-0.03	-0.15	-1.8	112.5
	JA 681N	Lac	4	incomplete				
	JA 242P	Lac	4	incomplete				
	JA 230R	Lac	2	incomplete				
	AOET 755P	Hamp	6	incomplete				
Fulks, Neil	AJIU 591P	York	4	incomplete				
Gwynne Vista Farm	JKAA 682N (C)	York	10	+0.2	+0.07	0.00	-6.7	110.9
	KKEF 1731P (C)	York	8	+0.6	-0.01	-0.07	0.0	89.6
	JA 791M (U)	Lac	18	+1.0	+0.08	-0.11	-9.4	127.9
	KR 8705P (C)	Lac	15	-1.1	-0.02	+0.08	+4.1	101.7
	KR 1804R	Lac	4	incomplete				
Hutchinson, J. W.	JWRH 32M (U)	York	20	-0.5	-0.02	+0.02	-2.5	100.4
	JWRH 410N (U)	York	15	-0.2	0.00	+0.03	-4.9	102.7
	TVW 112P (U)	York	12	0.0	+0.01	-0.05	-3.0	99.5
	JWRH 28P	York	4	incomplete				
	KKEF 2437P	York	6	incomplete				
	KKEF 1741R	York	2	incomplete				
Kavesnder Farm	ACUT 343P	York	2	incomplete				
	ACUT 405P (N)	York	14	-0.6	+0.01	+0.02	-0.5	103.8
	ACUT 0491P	York	4	incomplete				
	ACUT 525P (U)	York	20	+0.4	+0.10	-0.50	-4.5	117.2
	ACUT 656P (C)	York	24	+0.4	+0.02	+0.09	-2.8	100.1
	ACUT 505P (N)	York	8	+0.9	+0.05	-0.02	-4.3	101.9
	ACUT 457R	York	2	incomplete				

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (Kg/day)	Feed Conv.	Age (days)	Index
Kingsland, J.M.	ARHL 1308P	York	2	incomplete				
	JKAA 114P	York	2	incomplete				
Knobben, Garry or John	AREE 155P (C)	York	8	-0.3	-0.06	+0.05	+2.8	109.8
	AREE 193P	York	2	incomplete				
	KKEF 1356P (N)	York	12	-2.7	-0.05	0.00	+5.9	115.2
	AREE 11R	York	4	incomplete				
	AREE 91R	York	2	incomplete				
	AREE 254R	York	2	incomplete				
	GARY 12R	York	3	incomplete				
	GARY 72R	York	4	incomplete				
Lakeland College	DASA 471P (N)	Land	10	+0.8	-0.03	-0.04	+5.7	85.9
	DASA 640P (U)	Land	16	-0.2	-0.01	-0.03	+6.0	100.0
Maschmeyer, Doug	AKWX 227M (C)	York	8	-1.0	-0.09	+0.27	+11.9	91.6
Matejka, George or Tony	AREE 146P (C)	York	12	-2.2	+0.03	-0.08	-4.2	124.6
	JASD 461P (C)	York	14	-2.3	0.00	+0.02	+1.8	119.5
	AJIU 527P (C)	York	10	-0.6	-0.06	+0.04	+7.6	90.5
	AJIU 596P (C)	York	9	-1.0	-0.02	-0.04	+1.1	103.6
	KKEF 980P (U)	York	14	-0.6	-0.03	-0.03	+2.6	96.2
	KKEF 2294P	York	2	incomplete				
	JWRH 147R	York	4	incomplete				
	AKWX 154R	York	6	incomplete				
	ASCG 181R	York	2	incomplete				
	KKEF 461R	York	2	incomplete				
	ZTF 393R	York	2	incomplete				
	KKEF 1022R (N)	York	14	-0.3	-0.01	-0.04	-5.5	100.7
McCarthy, J.	AJIU 672N (C)	York	8	+2.1	-0.03	+0.19	-5.6	74.2
	ASZT 272P	York	2	incomplete				
	ASZT 134R	York	5	incomplete				
MacMillan, R.	TVW 701P	York	2	incomplete				
	KKEF 1365P (C)	York	29	-1.4	-0.02	-0.04	-2.8	106.4
	AREE 10R	York	6	incomplete				
	TUY 16R	York	2	incomplete				
	KKEF 1305R (N)	York	10	+0.2	-0.09	-0.02	+16.2	80.0
Milne, Bruce	MILN 38P	York	2	incomplete				
Ovation Enterprises	HG 301N	Lac	2	incomplete				
	CC 1915P	Lac	4	incomplete				
Reiter Farms	JKAA 681N	York	6	incomplete				
	JWRH 392P	York	2	incomplete				
	RITR 56R	York	4	incomplete				
	VGZ 103R	York	4	incomplete				
	AJIU 199R	York	10	+0.7	+0.05	+0.02	-12.0	103.8
	KKEF 2501R	York	2	incomplete				

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (Kg/day)	Feed Conv.	Age	Index
Rice, Ron or Harvey	TUY 260N	York	6	incomplete				
	TUY 261N (U)	York	25	-1.0	-0.03	-0.05	+7.0	103.6
	ARVY 170P	York	2	incomplete				
	AHPZ 36R	York	2	incomplete				
	AHPZ 218N (C)	York	10	-0.6	-0.01	+0.06	+0.1	101.1
	AJCM 1521M (C)	Hamp	8	-0.9	-0.04	+0.17	0.0	87.2
	ATNV 230M (U)	Duroc	25	-1.9	-0.01	+0.04	+1.5	117.0
	AHPZ 657N	Duroc	4	incomplete				
	AOUD 927N (C)	Duroc	10	-1.1	-0.06	+0.07	+7.8	106.2
	ARVY 114P	Duroc	6	incomplete				
Slipchuk, P.	ASZT 61R	York	4	incomplete				
Toft, Gary	AHPZ 573N (C)	York	10	-0.2	+0.05	-0.04	-5.8	114.3
	CUXA 350R	York	2	incomplete				
Vandenberg, Joe	KKEF 783P	York	2	incomplete				
	ASCG 1109P	York	6	incomplete				
	ASZT 57R	York	2	incomplete				
	ASCG 6310R	York	2	incomplete				
	ARVY 185P	Duroc	2	incomplete				
Wannechko, A.	AREE 345N (U)	York	14	+0.3	-0.03	-0.02	-1.6	89.7
	AOGK 701P	York	6	incomplete				
Wolf, K.	KKEF 1234G	York	4	incomplete				
	KKEF 441P	York	6	incomplete				
	KKEF 981P	York	6	incomplete				
Alberta Swine Breeding Centre	OKV 105N (U)	York	14	+0.1	+0.04	0.00	-4.2	107.0
	GARY 13P (U)	York	17	+0.3	+0.05	-0.06	-3.4	106.6
	APYP 051P (C)	York	8	-0.1	0.00	-0.11	+1.7	99.7
	WM 100P (N)	York	10	-1.9	-0.12	+0.07	+4.4	90.1
	ASEN 917P	York	4	incomplete				
	LDUC 444P (N)	York	18	-2.4	-0.07	+0.03	+4.0	106.9
	EJD 1941P (N)	York	24	-1.9	-0.02	-0.12	+2.1	113.2
	ALRS 216R (N)	York	12	-1.1	-0.01	-0.05	+3.9	107.7
	GIP 911P (N)	Land	12	-3.9	-0.06	+0.04	+4.2	122.2
	ANLG 912P (N)	Land	8	+1.2	+0.02	+0.01	-3.4	94.5
	AOET 1630P (N)	Land	4	incomplete				
	CC 12P (U)	Lac	17	-0.3	-0.03	+0.04	+3.2	95.7
	IF 115R	Lac	4	incomplete				

TABLE VI

BOAR SALE ACTIVITY IN ALBERTA

1975 - 1984

YEAR	LOCATION	NUMBER SOLD	TOTAL SALES ($)	AVERAGE PRICE ($)
1984	Leduc	129	61,435	476.24
	Lacombe	142	69,720	490.99
		271	131,155	483.97
1983	Leduc	95	40,160	422.74
	Lacombe	128	60,355	471.52
		223	100,515	450.74

In 1983 Leduc Station was required to omit one fill due to interior renovations.

1982	Leduc	143	63,765	445.91
	Lacombe	136	69,235	509,08
		279	133,000	476.70
1981	Leduc	77	35,435	460.19
	Lacombe	154	81,930	532.01
		231	117,365	508.07
1980	Leduc	100	38,190	382.00
	Lacombe	135	66,590	493.00
		235	104,780	437.50
1979	Leduc	113	45,605	403.58
	Lacombe	175	85,500	488.57
		288	131,105	455.23
1978	Leduc	126	57,545	456.71
	Lacombe	116	52,535	452.89
		242	110,080	454.88
1977	Edmonton	110	46,155	419.59
	Lacombe	112	46,750	417.41
		222	92,905	418.49
1976	Edmonton	83	38,590	464.90
	Lacombe	105	42,290	402.76
		188	80,880	430.21
1975	Edmonton	102	36,285	355.74
	Lacombe	72	23,755	329.93
		174	60,040	345.06

PART C: HOME TEST RESULTS

TABLE VII

ALBERTA SWINE HOME TESTING ACTIVITY

1984 SUMMARY

Number of Pigs Tested Per Farm	Number of Breeders	% of Breeders	Total Number of Pigs	% of Pigs
20 or less	13	14	136	0.7%
20-50	18	19	578	3.2%
51-100	14	15	1090	6.0%
101-200	18	19	2676	14.7%
201-500	22	23	5697	31.4%
500 & over	9	10	7991	44.0%
TOTAL	94	100%	18168	100.0%

TABLE VII (a)

1983 SUMMARY

Number of Pigs Tested Per Farm	Number of Breeders	% of Breeders	Total Number of Pigs	% of Pigs
20 or less	15	16.1%	171	1.0%
20-50	13	14.0%	432	2.4%
51-100	18	19.4%	1403	7.9%
101-200	19	20.4%	2857	16.2%
201-500	19	20.4%	5203	29.5%
500 & over	9	9.7%	7594	43.0%
TOTAL	93	100%	17,660	100.0%

TABLE VIII

HOME TESTED BOARS - BY BREED

BREED	1984 NUMBER TESTED	1984 AVERAGE BACKFAT @ 90 kg (mm)	1984 AVERAGE AGE @ 90 kg (days)	1983 NUMBER TESTED	1983 AVERAGE BACKFAT @ 90 kg (mm)	1983 AVERAGE AGE @ 90 kg (days)
Yorkshire	2320	14.0	157	2480	14.0	159
Landrace	569	14.8	155	618	14.9	155
Lacombe	575	14.9	163	604	14.7	160
Hampshire	217	12.9	169	184	12.7	176
Duroc	295	13.5	163	294	13.2	163
Crossbred	2188	14.0	155	1671	13.7	157
TOTAL:	6,164	14.1	157	5,851	13.9	159

TABLE IX

HOME TESTED GILTS - BY BREED

BREED	1984 NUMBER TESTED	1984 AVERAGE BACKFAT @ 90 kg (mm)	1984 AVERAGE AGE @ 90 kg (days)	1983 NUMBER TESTED	1983 AVERAGE BACKFAT @ 90 kg (mm)	1983 AVERAGE AGE @ 90 kg (days)
Yorkshire	3928	15.2	165	3913	15.1	167
Landrace	903	15.8	161	613	15.9	164
Lacombe	666	16.0	168	691	15.1	165
Hampshire	242	13.5	172	187	13.6	182
Duroc	185	14.8	166	265	14.2	166
Crossbred	6080	15.6	176	5840	14.4	167
TOTAL	12,004	15.4	171	11,809	14.8	167

PART C: HOME TEST DATA

TABLE X

SEEDSTOCK SECTION

71 REGISTERED USERS

PART C

	BOARS			GILTS		
	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE (days)	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE (days)
Yorkshire	2305	14.0	157	3912	15.2	165
Landrace	569	14.8	155	903	15.8	161
Lacombe	569	14.9	163	663	16.0	167
Hampshire	217	129	169	242	13.5	172
Duroc	295	13.5	162	185	14.8	166
Crossbred	2097	14.1	154	3606	15.7	170
Total	6052	14.1	157	9511	15.5	167

COMMERCIAL SECTION

23 REGISTERED USERS

Yorkshire	15	13.9	195	16	15.1	200
Landrace	-	-	-	-	-	-
Lacombe	6	16.5	169	3	14.2	236
Hampshire	-	-	-	-	-	-
Duroc	-	-	-	-	-	-
Crossbred	91	13.7	180	2474	15.4	184
Total	112	13.9	181	2493	15.4	184

OVERALL TOTALS

	6164	14.1	157	12004	15.4	171

TABLE XI

HOME TEST AVERAGES BY SEX AND BREED

As feeding management and environmental factors under which pigs are home tested can vary significantly between the various herds, and since limited numbers do not reflect true averages, the following herd averages should not be considered as a total measure of the genetic merit of the pigs tested in each herd.

SEEDSTOCK SECTION

YORKSHIRE

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Agra Farms	M	144	14.9	159
	F	162	15.8	163
Baert, M.	M	14	14.1	150
	F	47	15.3	160
Barrett, R & A	M	6	16.2	159
	F	2	14.7	175
Blair, K & W	F	12	20.1	145
Bloomsbury Farms	M	57	14.9	169
	F	87	16.5	171
Braat, J.	M	138	12.3	152
	F	377	13.5	158
Brownlee, J.	M	119	13.6	162
	F	141	15.5	165
Brownlee, T.	F	1	18.3	159
Carrich Stock Farm	M	10	14.1	182
	F	18	15.2	191
Clayridge Stock Farm	M	12	16.6	176
	F	19	14.5	185
Eringfeld, B.	M	53	13.8	171
	F	83	15.2	172
Five Lakes Farms	M	280	13.0	157
	F	273	14.4	167

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE 90 KG. (days)
Fowler, A.	M	22	15.6	172
	F	82	15.8	180
Fulks, N. T.	M	54	13.5	138
	F	14	17.9	144
Fulks, S. R.	M	26	13.2	140
	F	9	15.0	142
Gray, L.	M	58	13.3	153
	F	85	14.3	156
Gwynne Vista Farm	M	83	14.1	168
	F	164	15.6	169
Hoddinott, R.	M	4	16.6	158
	F	3	15.3	167
Hutchinson, J.	M	41	16.3	169
	F	164	17.2	181
Kaveander Farm	M	74	15.5	163
	F	170	16.2	170
Kingsland, J. M.	M	46	13.6	140
	F	116	14.3	146
Knobben, Garry	M	64	13.0	149
	F	82	13.3	161
Knobben, John	M	54	12.2	149
	F	101	12.9	157
Leedale Colony	M	2	14.9	175
	F	2	14.8	181
MacMillan, R.	M	62	13.8	160
	F	133	15.0	162
Maschmeyer, D.	M	122	13.8	150
	F	113	15.5	152
Maschmeyer, G.	M	73	14.4	147
	F	42	15.3	153

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Matejka, G.	M	159	14.5	150
	F	463	15.1	171
McCarthy, J.	M	59	12.9	144
	F	94	15.6	148
Milne, B.	M	54	15.7	160
	F	105	16.5	163
Neufeld Farms	M	1	13.4	170
Olds College	F	9	16.2	147
Orr, W.	M	7	17.1	173
Ovation Enterprises	M	16	13.7	163
	F	22	15.3	170
Papenhuyzen, C.	M	11	17.4	149
	F	8	21.9	157
Ranchview, A.	M	2	15.1	153
	F	2	16.5	169
Reiter Farms	M	79	14.9	160
	F	129	16.2	169
Rice, H.	M	2	13.3	173
	F	9	14.6	167
Rice, R.	M	38	14.3	164
	F	50	15.4	167
Roeske, M.	M	10	18.3	167
	F	24	19.3	187
Slipchuk, P.	M	26	15.4	147
	F	35	15.3	150
Toft, G.	M	43	14.8	167
	F	186	15.3	171
Toth, J.	M	6	15.0	174
Turko, D.	M	13	15.0	178
	F	14	15.9	176

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
U & U Pork Farms	M	21	14.3	168
	F	40	16.2	172
Vandenberg, J.	M	73	14.0	155
	F	61	15.1	155
Wannechko, A.	M	7	16.2	145
	F	8	19.1	145
Weber Farms	M	6	13.5	167
	F	31	14.9	170
West, N., T.J. & L.	M	45	15.5	169
	F	36	13.7	190
Wolf, K.	M	9	14.1	181
	F	73	15.6	183
	LANDRACE			
Agra Farms	M	156	14.5	151
	F	181	15.2	157
Barrett, R & A	M	89	15.8	144
	F	131	16.6	138
Braat, J.	M	24	13.7	152
	F	43	14.7	157
Carrich Stock Farm	M	22	14.3	181
	F	55	15.1	190
Dietermann, W.	M	4	12.9	152
	F	11	15.6	145
Duff, B.	M	22	15.1	151
	F	27	15.3	155
Duff, D.	M	82	15.1	149
	F	122	16.4	153
Eringfeld, B.	M	9	15.9	182
	F	18	16.3	193
Hahn, H.	M	4	13.4	163
	F	10	15.5	188

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Knobben, G.	M	21	14.0	150
	F	26	14.3	162
Lakeland College	M	37	14.7	178
	F	81	15.8	173
Leedale Colony	M	6	15.5	181
	F	1	15.7	167
Matejka, Tony	M	13	15.1	157
	F	19	15.3	175
Milne, B.	F	6	15.6	169
Toft, V.	M	6	15.4	170
	F	28	15.9	163
U & U Pork Farms	M	72	14.6	165
	F	144	16.4	168
Vandenberg, J.	M	2	14.1	143
		LACOMBE		
Baert, M.	M	2	15.0	146
	F	1	16.9	153
Bloomsbury Farms	M	229	15.6	163
	F	235	16.9	165
Five Lakes Farms	M	171	15.2	164
	F	152	15.9	168
Gwynne Vista Farms	M	141	13.6	161
	F	213	14.9	168
Jacobsson, G.	F	7	15.3	167
Ovation Enterprises	M	26	13.8	172
	F	30	16.2	172
Woelk Farms Unit #1	F	17	15.3	179
Woelk Farms Unit #2	F	8	17.7	173

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
		HAMPSHIRE		
Bloomsbury Farms	M	49	14.4	182
	F	43	15.2	183
Braat, J. M	M	37	13.2	157
	F	23	15.2	148
Brownlee, J.	M	34	11.6	178
	F	43	12.5	175
Five Lakes Farms	M	32	13.1	171
	F	40	14.3	172
Papenhuyzen, C.	M	3	11.5	162
	F	5	12.9	166
Rice, H.	M	11	12.7	158
	F	8	13.6	172
Rice, R.	M	13	11.5	169
	F	14	10.6	179
U & U Pork Farms	M	8	14.1	172
	F	13	14.8	167
Vandenberg, J.	M	8	14.9	169
	F	10	14.4	174
Zarusky, M.	M	20	10.1	152
	F	37	11.4	171
		DUROC		
Baert, M.	M	3	16.3	154
	F	4	19.9	169
Braat, J.	M	37	13.3	155
	F	23	14.1	154
Christiansen, D.J.	M	5	10.9	176
	F	8	11.7	176
Maschmeyer, G.	M	18	14.5	157
	F	17	16.1	159

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Matejka, S.	M	5	16.8	149
	F	7	15.9	156
Neufeld Farms	M	78	13.8	166
	F	33	15.1	167
Ranchview A	M	13	14.8	172
	F	7	16.5	187
Rice, H.	M	21	13.4	164
	F	30	14.4	171
Rice, R.	M	30	12.9	167
	F	24	15.2	171
Vandenberg, J.	M	85	13.0	161
	F	32	14.0	164
		CROSSBRED		
Baert, M.	F	170	17.5	156
Bloomsbury Farms	M	2	15.5	176
	F	109	16.4	171
Braat, J.	M	32	13.9	147
	F	15	15.3	152
Carrich Stock Farm	M	1	14.4	179
	F	146	15.1	165
Christiansen, D. J.	M	8	12.3	192
	F	27	15.3	190
Eringfeld, B.	F	61	17.1	175
Five Lakes Farms	F	3	14.6	156
Fulks, N. T.	M	9	16.0	143
Groot, C.	M	84	15.7	168
	F	39	17.6	169
Gwynne Vista Farms	F	147	16.2	163

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Hutchinson, J. W.	M	1	19.2	163
	F	8	18.9	179
Jacobsson, G.	M	1	14.2	164
	F	194	15.6	162
Knobben, G.	M	2	15.5	139
	F	2	13.7	149
Lepp Pork Prod.	M	2	8.8	157
	F	195	12.5	178
Milne, B.	F	162	15.6	147
Nelson, C & B	F	31	16.3	207
Neufeld Farms	M	120	14.0	158
	F	49	15.7	152
Old House Farm	F	104	13.8	173
Olds College	F	66	15.7	151
Orr, W.	M	12	15.3	163
	F	1	17.1	162
Ovation Enterprises	F	5	18.3	165
Preugschas, M.	M	65	15.5	164
	F	89	16.8	171
Ranchview Test Barn	M	1445	13.7	150
Ranchview A.	M	30	14.6	155
	F	413	15.9	170
Ranchview B.	M	261	14.9	165
	F	1068	15.3	177
Rice, H.	M	4	16.1	153
Rice, R.	M	2	11.0	161
	F	2	11.8	165

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
U & U Pork Farms	M	9	14.5	160
	F	34	16.3	165
Weber, W.	F	3	12.5	144
West, N., T.J. & L.	M	7	16.9	162
	F	156	18.1	175
Wierenga, C.	F	97	16.5	167
Woelk Farms Unit #1	F	153	16.7	178
Woelk Farms Unit #2	F	57	15.7	165

COMMERCIAL SECTION

BREEDER	BREED & SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Anderson Farms	Cross F	13	15.3	194
C.M.W. Farms	Cross M	8	14.0	180
Den Oudsten, C.	Cross M	20	13.2	181
	Cross F	37	13.4	190
Derewianka, C.	Cross F	39	16.7	235
Deschner, K	Cross F	7	11.5	187
E. C. Farms	Cross F	245	15.7	190
Fairview College	York M	15	13.9	195
	York F	16	15.1	200
	Cross F	201	14.8	191
GMH Bluebird Ranch	Cross M	3	13.6	177
	Cross F	44	15.9	196
Hall, D.	Cross F	68	13.1	170

COMMERCIAL SECTION (CONT'D)

BREEDER	BREED & SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Hays Hog Farm	Cross F	138	16.1	167
Hillary, W.	Cross F	167	17.1	178
Koot, H.	Cross F	64	14.6	167
Larsen, S.	Cross F	24	16.3	156
Lenz Farms	Cross F	73	15.2	171
Little, R.R. & D.J.	Cross F	140	14.9	212
McKinnon, P.	Cross M	12	13.4	200
	Cross F	53	15.6	207
Mryglod, E.	Cross M	3	13.8	179
	Cross F	30	17.8	183
Pain, S.	Cross F	255	15.1	183
Slingerland, B.	Cross F	130	14.4	168
Stern, R.	Cross F	27	13.5	169
Vanden Dool, J.	Cross M	30	13.6	170
	Cross F	663	15.5	180
Wildeboer, W.	Cross M	15	14.7	184
Woodstock Hog Farm	Lac M	6	16.8	169
	Lac F	3	14.2	236
	Cross F	56	16.3	188